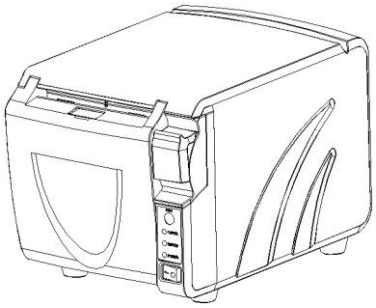
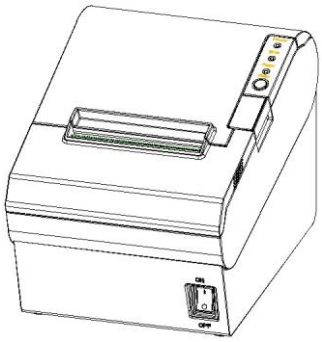
Desktop POS Printer

TP801/TP805/TP806

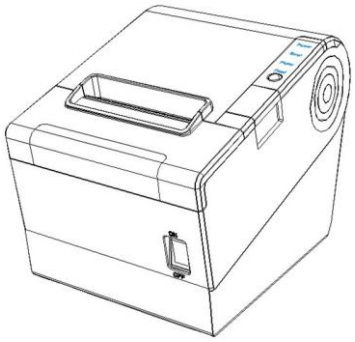
User Manual



TP801



TP805



TP806

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Statement

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Printed in China
1.0 Version

Warnings :

This must be complied with in order to avoid any damage to the human body and to the equipment.

This is showing the important information and tips for the printer operating.

Important Safety Instructions

1. Safety warning

1) Warnings: The print head will become very hot during printing; avoid contact with the print head after printing has finished.
2) Warnings: Do not touch the printer head and connector in case static damage the printer head.

2. Instructions

Read the following instructions thoroughly before starting up your printer.

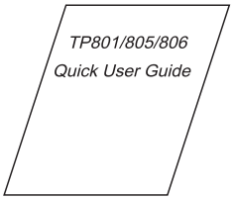
1) Place the printer on a solid and even base so that it cannot fall.
2) Leave enough space around printer for operation and maintenance.
3) Keep all liquids away from the printer.
4) Do not expose the printer to high temperatures, direct sunlight or dust.
5) Protect the printer from shock, impact and vibration.
6) Ensure the printer is connected to a socket with the correct mains voltage.
7) Switch off the printer power supply when won't use it for a long time.
8) Do not printing when there is no paper, or it will damage printer head.
9) To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
10) Pls switch off the power supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
11) Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
12) Keep this Operator's Manual in a place which is easily accessible at all times.

POS printer packing-case

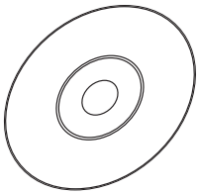
Pls. check you get all in carton as pic. 1

Power adapter

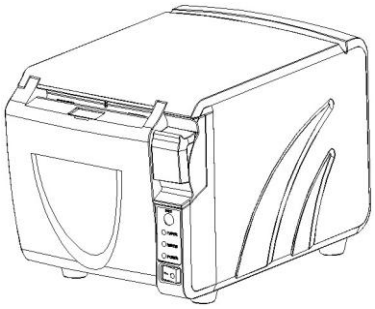
Power line



Quick start guide

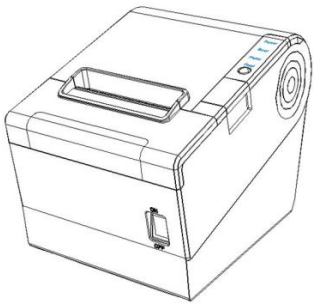


CD



TP801

TP805



TP806

pic.1

1 Overview

1.1 Introductions

TP801/805/806 is a thermal receipt printer with auto-cutter, featured by high printing quality, high printing speed, high stability, etc. It can be used in commercial POS system, food industry and occasions which need real-time field print receipts.

TP801/805/806 can connect with other equipments through parallel, serial, USB, and Ethernet interfaces. And the printer drivers are available for the WINDOWS XP/WINDOWS 7 32 bit/WINDOWS 7 64bit operating system.

1.2 The main features

1) Automatic paper cutting
2) Low noise
3) High printing speed
4) Easy paper loading
5) User convenient maintenance
6) Support label paper and continuous paper printing
7) Compatible with various width paper
8) Cash drawer interface
9) Communication interfaces optional

2 Specification

2.1 Printer specification

Model		TP801	TP805	TP806
Printing Parameter	Print method	Direct thermal line printing		
	Resolution	203DPI，8dots/mm		
	Printing width	72mm（576dots）		
	Print speed	200～300mm/s	200～250mm/s	250～300mm/s
	Interface	Wi-Fi		Wi-Fi
		Serial, Parallel, Ethernet, USB		
	Print density	Adjustable from level 1 to level 4		
Page Mode		support		
Memory	RAM	1Mb		
	Flash	4Mb		
Fonts	Chinese	GB18030 24×24 (Simplified/Traditional Chinese)		
	Alphanumeric	ASCⅡ9×17,12×24.		
	User-defined	support		
	Code page	Optional international character sets 32：（PC437,Katakana,PC850,PC860,PC863,PC865,ABICOMP,PC857，PC737，ISO8859-7，WPC1252，PC866,PC852,PC858,KU42,TIS11,TIS18,PC720，WPC775，PC855，PC862，PC864，ISO8859-2，ISO8859-15，WPC1250，WOC1251，WPC1253，WPC1254，WPC1255，WPC1256，WPC1257，WPC1258)		
Graphics		Support varied density bitmap as and download bitmap printing Max size of each bitmap is 40K, the total size of bitmap is 256k		
Barcode	1D	UPC-A、UPC-E、EAN8、EAN13、CODE39、ITF、CODEBAR、CODE128、CODE93		
	2D	PDF417、QR code		
Detect Function	Sensors	Paper end, paper near end, take paper and cover open sensors	Paper end, paper near end and cover open sensors	Paper end, paper near end, paper jam and cover open sensors
LED Indicator	Power indicator	Green LED	Green LED	Green LED
	Paper indicator	Blue LED	Red LED	Red LED
	Error indicator	Red LED	Red LED	Red LED
Power Supply		External power adapter		
	Input	AC100V-240V 50-60HZ		
	Output	DC 24V, 2A		
Paper	Paper type	Standard Thermal Paper		
	Paper width	79.5±0.5mm/57.5±0.5mm		
	Paper thickness	0.056~0.1mm		
	Paper roll diameter	Max. OD ϕ83mm		
	Paper load	Forward cover open and Easy paper loading	Upward cover open and Easy paper loading	
	Paper cut	Manual tear or Auto-cutter		
Command		ESC/POS		
Physical Spec.	Operating condition	-10℃～50℃，25%～80%RH		
	Storage condition	-40℃～70℃，<93%RH（40℃）		
	Dimensions L×W×H	190×127 ×126mm	195×177×147mm	197×145×146mm
	Weight	1580g	1.8kg	1.8kg
Reliability	TPH lifetime	150km		
	Cutter lifetime	2,000,000 cuts		
	MTBF	360, 000 hours		
Software Function	Driver program	Windows (Win7/Win8/Vistal/XP/2000)		

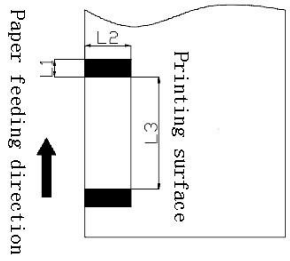
2.2 Printing media specification

2.2.1 Continuous thermal paper specification

- Paper type: thermal continuous paper/thermal black mark paper/thermal label paper.
- Paper width： 80±0.5 mm, 57.5±0.5 mm.
- Paper outer diameter：Max. 83 mm.
- Paper roller inner diameter： paper roll mandril inner diameter12mm,paper roll mandril outer diameter18mm.
- Paper thickness： 0.065 ～ 0.10mm.

2.2.2 Black mark paper specification

When using the black mark paper, the black mark paper must be at the front side of the receipt paper, and the reflectivity should be less than 15%, and the reflectivity of other part of the paper should be more than 85%. There must not be any graphics in the black mark space, such as advertising. The black mark should be qualified for the below requirement:



5mm<L1（black mark width）<10mm

L2（black mark length）>12mm

20mm<L3(the distance between two black mark)<500mm

Fig 2.2.1

2.2.3 Notices

Notes：

- Pls. use the high quality thermal paper, otherwise it will influence the printing quality and decrease the thermal printer head life；
- Don’t stick the paper on the paper roll mandril；
- If the thermal paper is polluted by chemical or oil, the thermal paper heat sensibility decreases, which will influence the printing quality；
- Don’t use finger nail or hard articles to touch the surface o f thermal paper, otherwise it will cause color fading ；
- When the environment temperature is higher than 70°C， the thermal paper color will fade, so pay attention to the influence of temperature, humidity and sunlight.

2.3 Printing and cutting position

2.3.1 Printing position

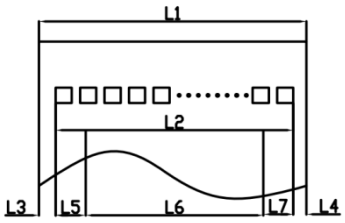


Fig 2.3.1

1) L1 Paper house width：TP801/805 - 83mm,TP806 - 81±0.5mm
2) L2 Valid printing width: 80mm
3) L3 The distance between the thermal printer head and the left side of the paper house(fixed width)：3.5±0.3mm
4) L4 The distance between the thermal printer head and the right side of the paper house(fixed width)：3.5±0.3mm
5) L5 The left side：default 4mm
6) L6 Printing width：decided by the command (see the program guide), and the default is 72mm.
7) L7 Te right side：default 4mm

2.3.2 Cutting position

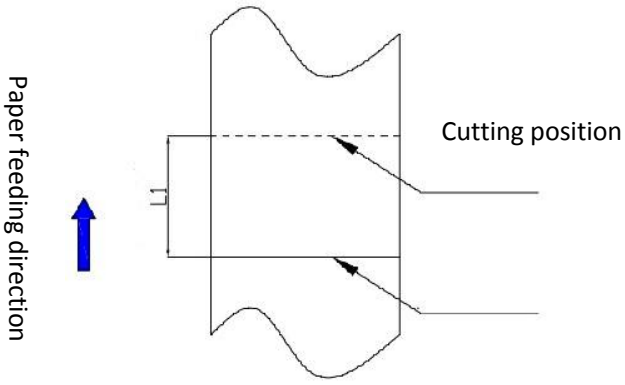
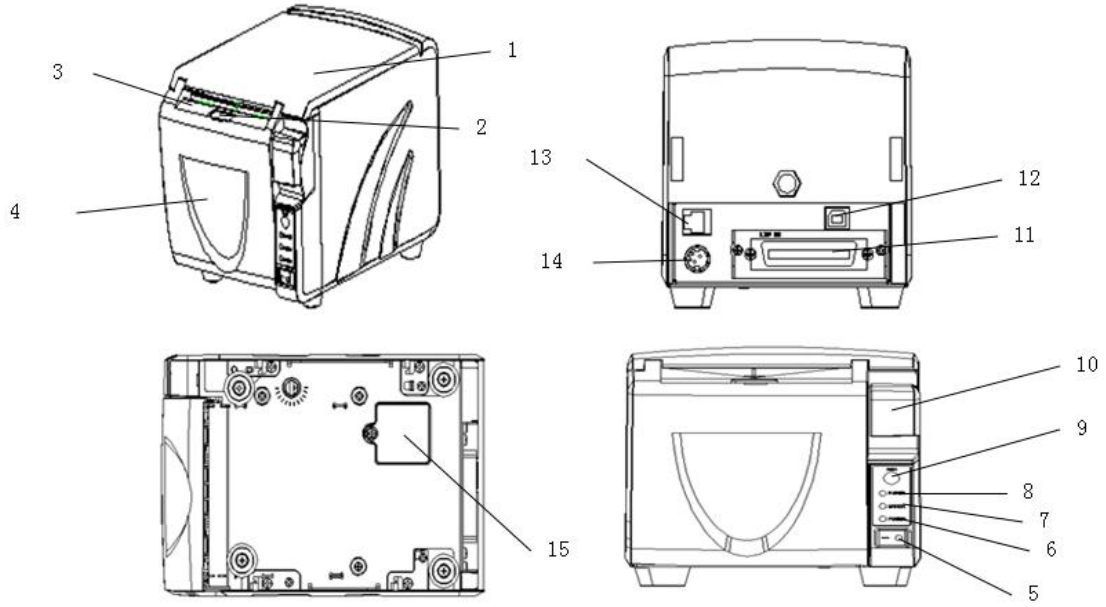


Fig 2.3.2

3 Printer components

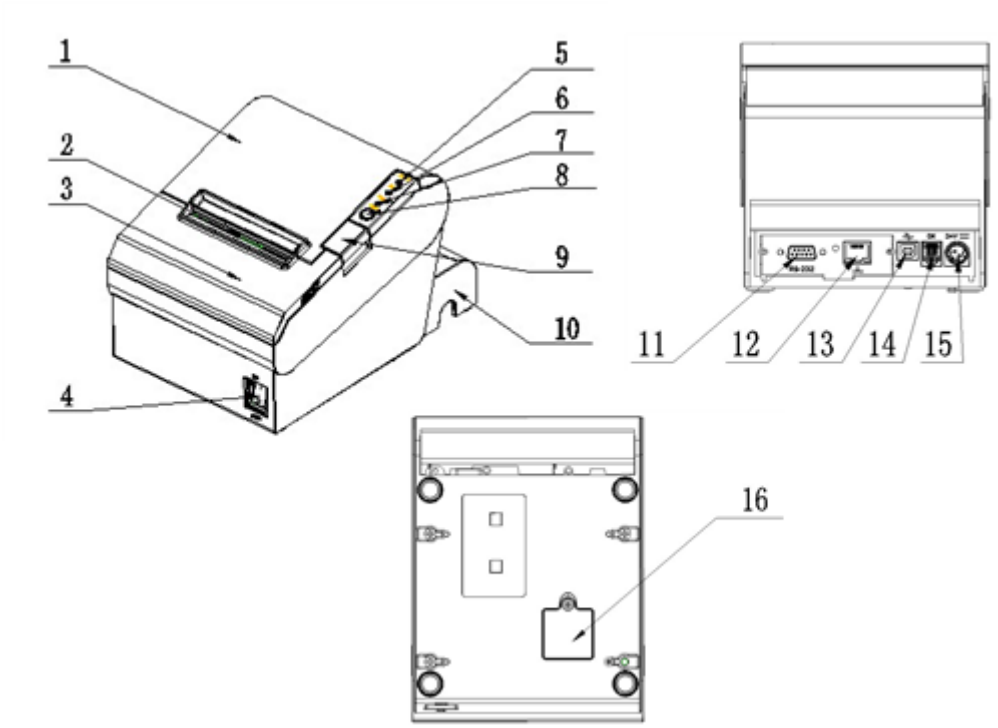
3.1 Appearance and component

3.1.1 TP801



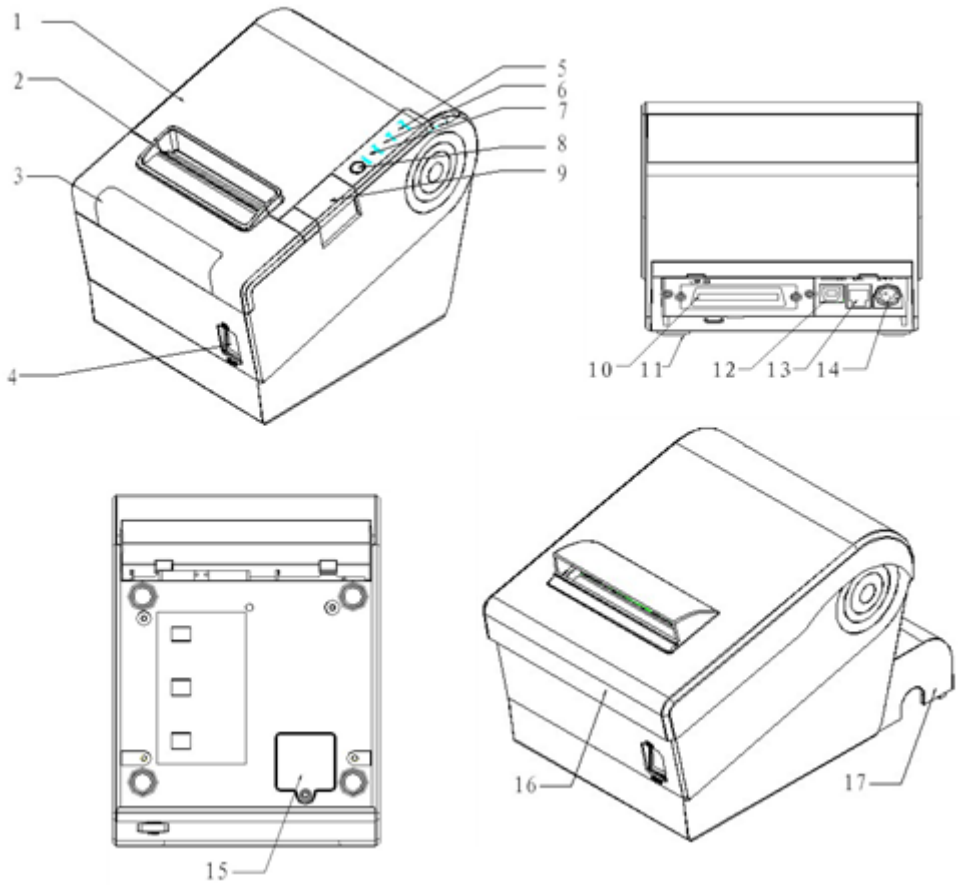
1.Printer Cover
2.Paper Detection
3.Paper Mouth
4.Front Cover
5.Power Switch
6.Power LED
7.Error LED
8.Paper near end LED
9.Feed LED
10.Cover Open Button
11. Flexible Interface Board (Serial/Parallel/Ethernet/Wi-Fi)
12.USB Interface
13.Cash Drawer Interface
14.Power Interface
15.DIP Switch Cover

3.1.2 TP805



1.Printer Cover
2.Paper Mouth
3.Front Cover
4.Power Switch
5.Power LED
6.Error LED
7.Paper nerd end LED
8.Feed LED
9.Cover Open Button
10.Cable cover
11/12. Flexible Interface Board (Serial/Parallel/Ethernet)
13.USB Interface
14.Cash Drawer Interface
15.Power Interface
16.DIP Switch cover

3.1.3 TP806



1.Printer Cover
2.Paper Mouth
3.Front Cover
4.Power Switch
5.Power LED
6.Error LED
7.Paper nerd end LED
8.Feed LED
9.Cover Open Button
10.Flexible Interface Board (Serial/Parallel/Ethernet/Wi-Fi)
11.Rubber Pads
12.USB Interface
13.Cash Drawer Interface
14.Power Interface
15.DIP Switch cover
16.Waterproof Cover
17.Cable Cover

Specification of some part elements

1) Power switch

Press “0” to turn off power and press “1” to turn on power supply;

2) Paper out indicator light

Detect the status of paper .when warming light fast blink, it means paper will run out, you should change paper soon; Under this status, printer will keep working until paper out ;

3) Unusual indicator light

During operation the if some abnormality has occurred, unusual light will flash, which indicates the printer is in an error state, should turn off power and check it .

3.2 Specification of Indicated light and beeper

Function specification of Indicated light and beeper

Name	Status	Specification
POWER Indicator light (Green)	Bright	The printer work well
	Extinguish	The printer does not work
ERROR Indicator light (Red)	Flashed	The printer in an error state
	Extinguish	The printer in an normal state
PAPER Indicator light (TP801 Blue) (TP805/TP806 Red)	TP801 Flashed	The printer in paper out state
	TP805/TP806 Bright	
	Extinguish	The printer in an normal state

Description	Power	Unusual	Paper out	Beeper
Open the cover of printer	bright	bright	bright	Two short voice“ Beep ,Beep”， one long voice“ Beep”
Full of paper	bright	Extinguish	Extinguish	Silent
No paper	bright	bright	bright	Three short voice “Beep Beep Beep”.
Paper will out	bright	Extinguish	bright	Silent

Notes:

The printer uses a thermistor to detect the temperature of the print head, if the print head is overheated, the circuit will cut off the power to the print head, and stop printing; The print head overheat protection temperature is 70 ° C

4 Printer packing

4.1 Open packing

When opening the package, according to the packing list to check if items are missing or damaged, if so, please contact the dealer or manufacturer.

4.2 Choice installation site and direction of printer

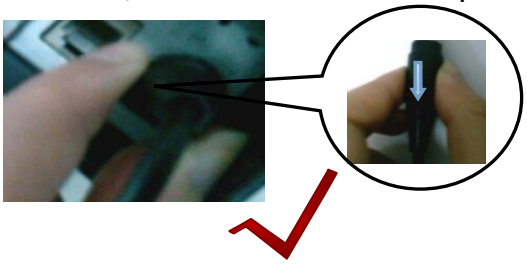
1) Install the printer on a flat, stable place; recommend to install it at horizontal line, angle of inclination should not exceed ± 10 °(paper feed direction)if tilt install printer, it does not allow to tilt by other direction.
2) Keep printer far away from source of water ;
3) Avoid the printer on place where it is vibration and shock
4) Ensure printer ground connect is sate ;
5) When the printer is at operation and maintenance, it is recommended to retain the space as below to ensure the printer can work in reliability and ease of operation.

4.3 Connect the printer power adaptor

1) Make sure the printer's power switch is turned off;
2) Put the cable plug of power adapter facing up at flat side, insert the rear of the printer power connector;
3) Turn the power adapter input power;
4) Pay attention about disconnecting or connect the AC adapter at right method, or likely to cause damage.

The plug of power adapter is designed in a switch type, when accessing power adapter and uttered the voice "click", it means the connected socket switch is locked the adapter connect well, otherwise please connect again .

When pull out the adapter, please pinch the shell of power adaptor and pull the switch up, when the switch is fully opened then pull out the power adapter.
Don’t put forth your strength to pull the plug by squeeze at any of place of power adaptor .Because, it is more difficult to pull it out and easy to damage the cable.



Notes：

► Please only use the power adapter are recommended by supplied or equivalent products;
► When disconnecting the AC adapter plug, handheld plug connector housing, to avoid the pulling on the cable in force;
► Avoid drag the power adapter cable, otherwise it will damage the cables, causing fire and shock;
► Avoid put power adapter around a heating device, otherwise the cable may melt, causing fire and shock;
► If you do not use the printer in a long time, disconnect the power supply of printer power adapter.

4.4 Connecting the Interface Cable

1) Make sure the printer's power switch is turned off;
2) Put the interface cable into the matched interface and fixed with screws (or spring) on the plug;
3) Connect the other end of the interface cable to the host.

4.5 Connecting the Cash Drawer

1) Make sure the printer's power switch is turned off;
2) Connect the cash drawer cable into the cash drawer interface on the rear side of the printer.

Warning:

Cash drawer interface can only be connected to a voltage of 24V cash drawer device (can’t connect to the phone line, etc.)

4.6 Paper roll installation

4.6.1 Confirmation of printing paper

After connecting the power adapter and interface cable, you can install media for printing. Confirm the type of paper used by the printer before printing. The default paper type is continuous paper. If you need to set the marked paper, please contact your dealer or manufacturer.

4.6.2 TP801/TP805/TP806 installation/Change Paper

1) Turn off printer power supply；
2) Flipping switch knob, open the top cover of TP805\TP806 and front cover of TP801（Like figure 4.6.1）

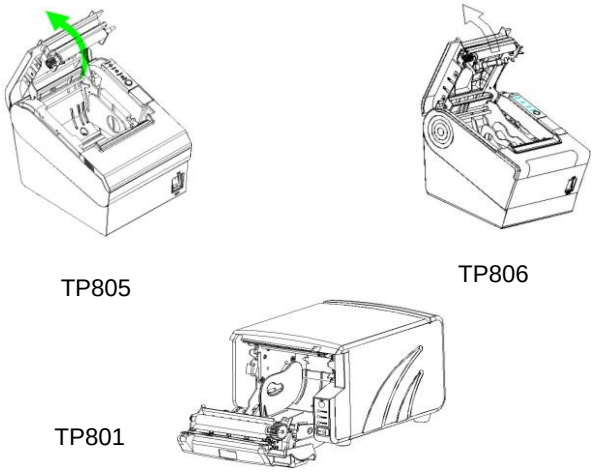


Figure 4.6.1

3) Put the paper into printer（Like figure 4.6.2）

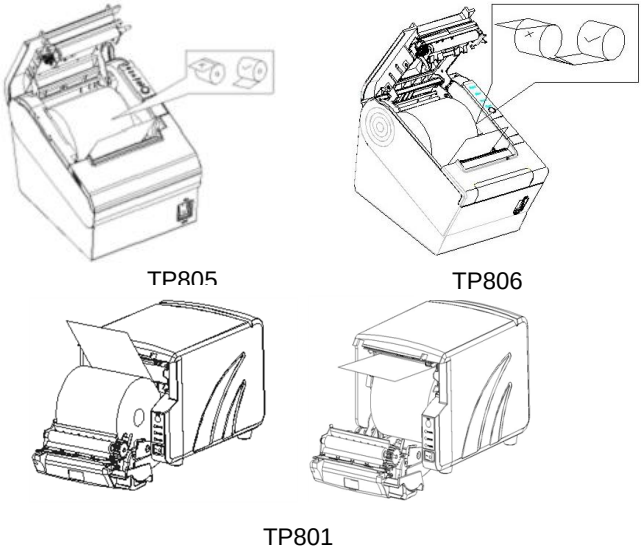


Figure 4.6.2

Notes：

- ► According to the paper size to adjust the paper holder;
- ► Make sure the end of the paper roll fit for the graphics requirements;

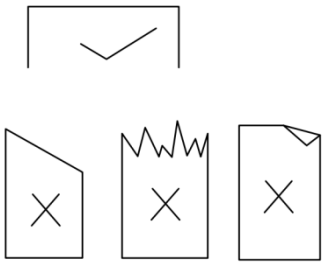


Figure 4.6.3

- ► Make sure the paper inside is at tight status, or it will tissue paper or other obstacle.

4) Pull out of the end of paper roll, closed the cover and tear up sheet of paper.

4.7 Setting DIP switch

4.7.1 Serial interface（RS-232C）

·DIP switch 1

Switches	Functions	Turn on	Turn off	Default
1-1	Line feed automatic	Yes	Prohibit	Turn off
1-2	Handshaking	XON/XOFF	DTR/DSR	Turn off
1-3	Data length	7 bit	8 bit	Turn off
1-4	Odd-even verify	Yes	No	Turn off
1-5	Odd-even choice	EVEN	ODD	Turn off
1-6	Choice baud rate（bps）	Reference form 1		Turn off
1-7				Turn on
1-8				Turn off

DIP switch 2

Switches	Functions	Turn on	Turn off	Default
2-1	The mode switch in both Chinese and English	English	Chinese	Turn on
2-2	Internal control beeper	Permit	Prohibit	Turn off
2-3	Auto cutter	Prohibit	Permit	Turn off
2-4	Busy condition	Receive buffer is full	*Off-line * Receive buffer is full	Turn off
2-5	Printer density	Reference form 2		Turn off
2-6				Turn off
2-7				Turn off
2-8	Paper out sensor status	Prohibit	Permit	Turn off

4.7.2 Interfaces of Parallel and USB2.0

DIP switch 1

Switches	Function	Turn on	Turn off	Default
1-1	Line feed automatic	Permit	Prohibit	Turn off
1-2 ~ 1-8	Reserve	-	-	Turn off

DIP switch 2

Switches	Functions	Turn on	Turn off	Default
2-1	The mode switch in both Chinese and English	English	Chinese	Turn on
2-2	Internal control beeper	Prohibit	Permit	Turn off
2-3	Auto cutter	Prohibit	Permit	Turn off
2-4	Busy condition	Receive buffer is full	*Off-line * Receive buffer is full	Turn off
2-5	Printer density	Reference form 2		Turn off
2-6				Turn off
2-7				Turn off
2-8	Paper out sensor status	Prohibit	Permit	Turn off

Form 1—The Choice of Baud rate

Baud rate	1-6	1-7	1-8	Default
2400	Turn on	Turn off	Turn off	9600
4800	Turn on	Turn off	Turn on	
9600	Turn off	Turn on	Turn off	
19200	Turn off	Turn off	Turn off	
38400	Turn off	Turn on	Turn on	
57600	Turn off	Turn off	Turn on	
115200	Turn on	Turn on	Turn on	

Form 2—The choice of print density

2-5	2-6	2-7	Printer density	Default
Turn on	Turn on	Reserve	1（diluted）	2
Turn off	Turn off	Reserve	2	
Turn on	Turn off	Reserve	3	
Turn off	Turn on	Reserve	4（dense）	

4.7.3 The choice of auto cutter

DIP **Switch setting 2**		
Switch2-3	Turn on	Automatic paper cutting is prohibited
	Turn off	Automatic paper cutting is permitted
Application program	Ignore the automatic paper cutting error continuous printing	

4.8 Print self testing

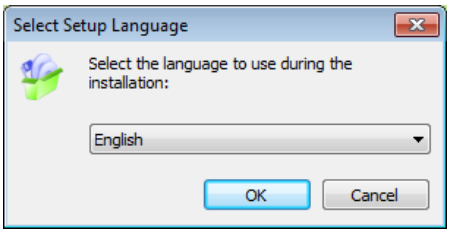
1) Make sure the printer has been installed paper roll and turn off the top cover;
2) Press on FEED button and turn on power switch, the printer will print out self-test page.

4.9 Installation of Windows driver

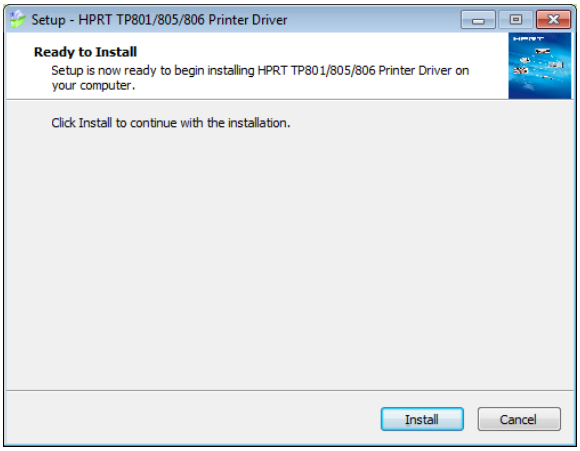
Give an example of TP806, in printer's CD has attached windows driver program, open the driver program and run "DriverSetup.exe".

4.9.1 The driver installation instruction of USB /serial port /parallel interface

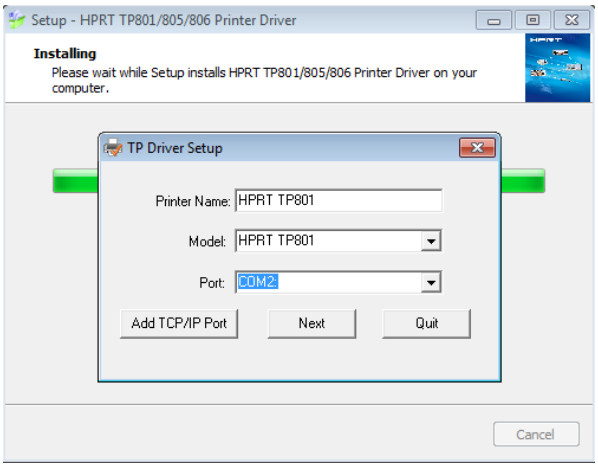
1) Double click" HPRTTPPrinterDriver-v-1.0.2.6.exe", Choice "English" and click "OK".



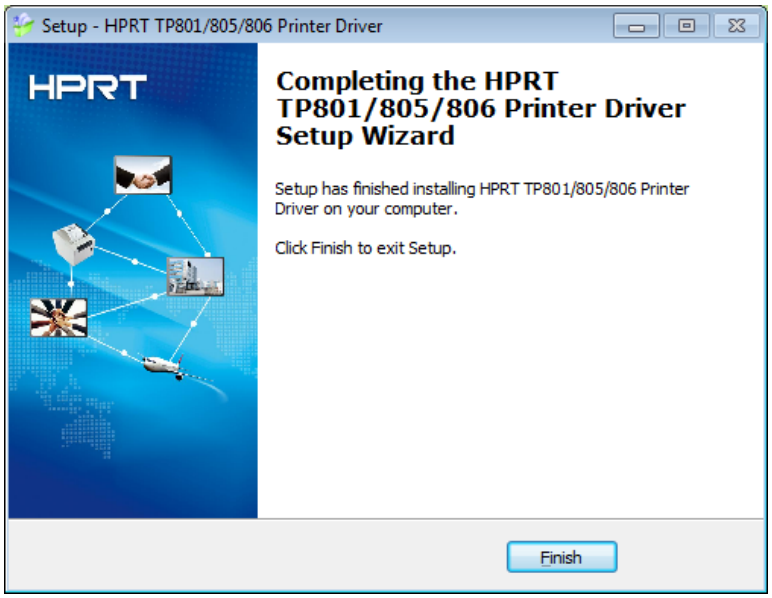
2) Click “Install”.


Setup - HPRT TP801/805/806 Printer Driver
Ready to Install
Setup is now ready to begin installing HPRT TP801/805/806 Printer Driver on your computer.
Click Install to continue with the installation.
Install
Cancel

3) Choice the port and type you want(the installation program will recognize the usable printer ports automatically, USBxxx is for USB port ,COMx is for serial port,LPTx is for parallel port),click “Next” to next step.

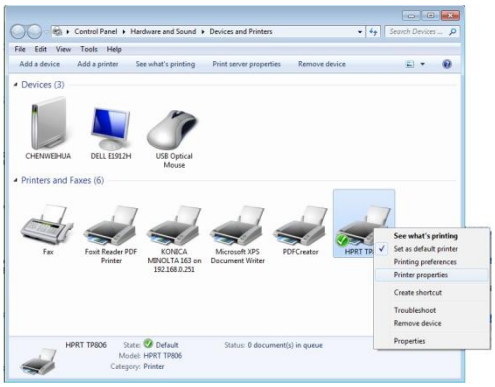


4) Click “Finish” , it is successful to install.

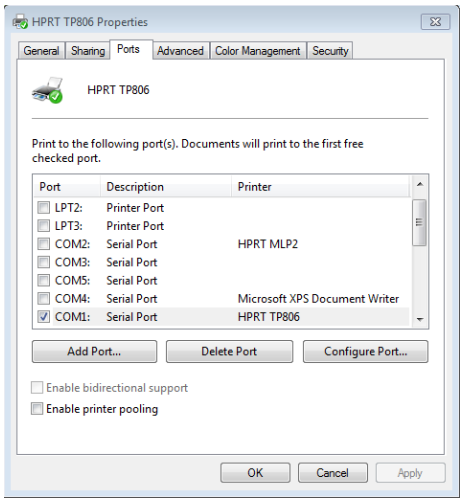

Setup - HPRT TP801/805/806 Printer Driver
HPRT
Completing the HPRT TP801/805/806 Printer Driver Setup Wizard
Setup has finished installing HPRT TP801/805/806 Printer Driver on your computer.
Click Finish to exit Setup.
Finish

4.9.2 The driver installation instruction of Ethernet and Wi-Fi

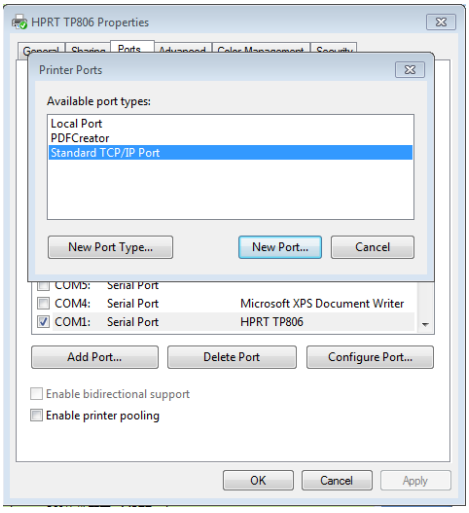
1) Install printer driver program just as USB installation.
2) Click “Control Panel”→”Hardware and Sound”→”Devices and Printers”.



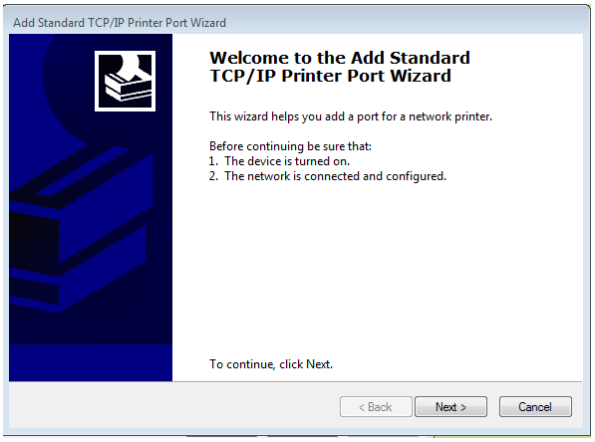
3) Right click “HPRT TP806” and choice “Printer properties”, click “Ports”,choice”COM1”, Click “Add Port…” button.



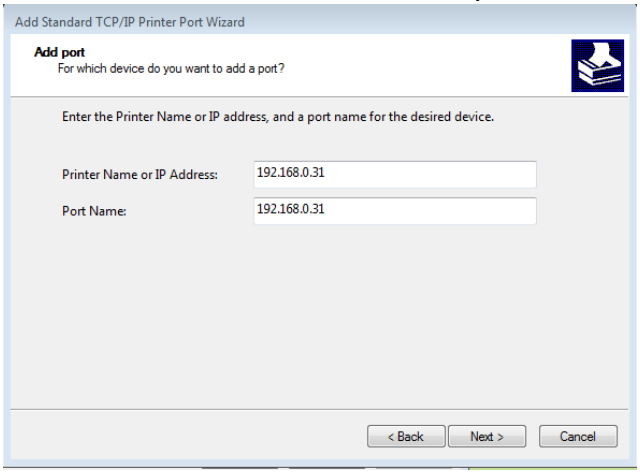
4) Choice “Standard TCP/IP Port” and click “New Port…” button.



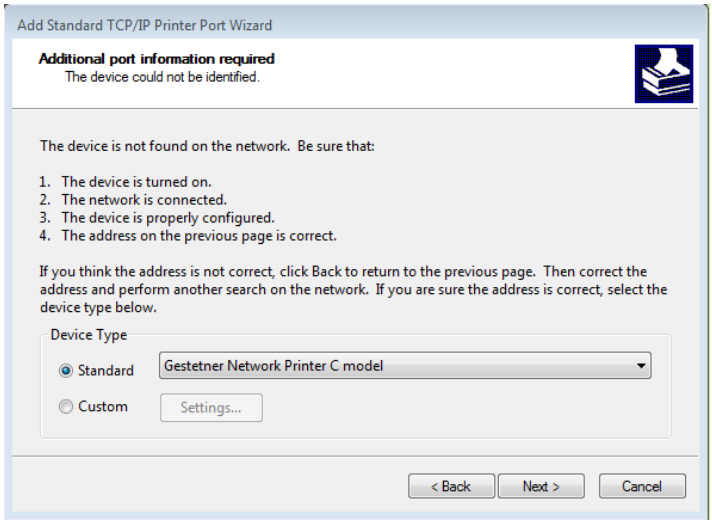
5) Click “Next>”.


Add Standard TCP/IP Printer Port Wizard
Welcome to the Add Standard TCP/IP Printer Port Wizard
This wizard helps you add a port for a network printer.
Before continuing be sure that:
1. The device is turned on.
2. The network is connected and configured.
To continue, click Next.
< Back
Next >
Cancel

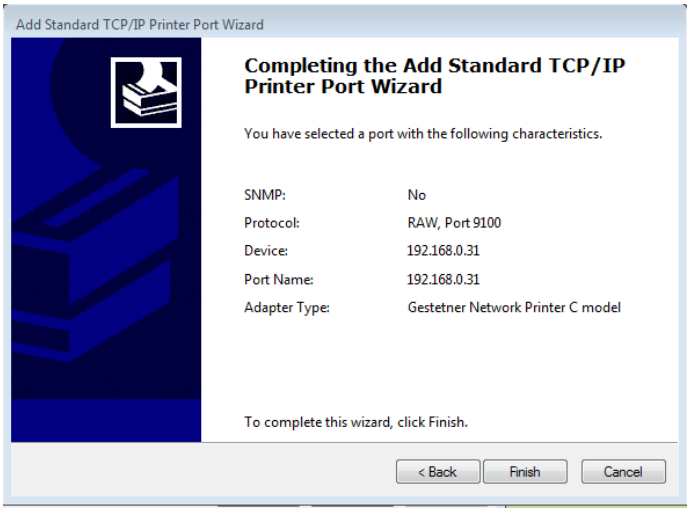
6) Finishing the writing of printer name (or IP address)and port name ,Clicking “Next >”.
“Printer Name or IP Address”: Depends on the display of printer’s self-test page.
“Port Name”:Users can customize the name of the port.


Add Standard TCP/IP Printer Port Wizard
Add port
For which device do you want to add a port?
Enter the Printer Name or IP address, and a port name for the desired device.
Printer Name or IP Address:
192.168.0.31
Port Name:
192.168.0.31
< Back
Next >
Cancel

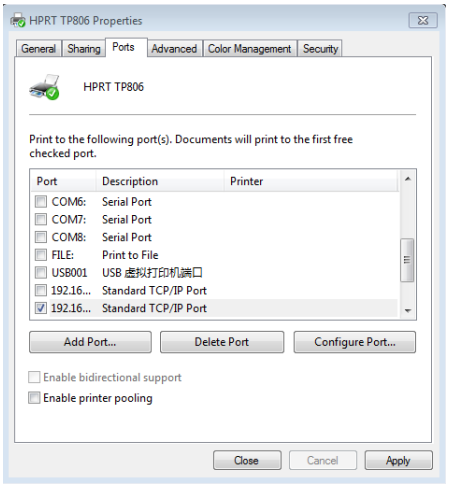
7) Clicking “Next >”.

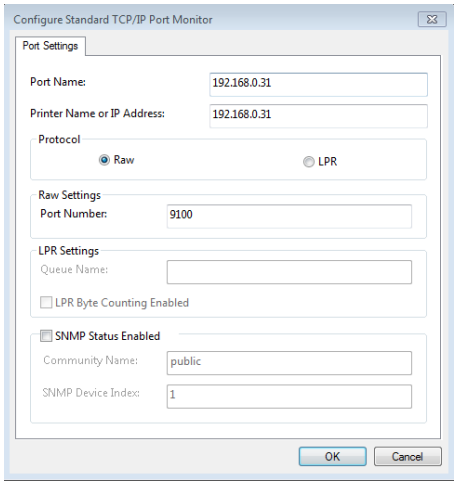

Add Standard TCP/IP Printer Port Wizard
Additional port information required
The device could not be identified.
The device is not found on the network. Be sure that:
1. The device is turned on.
2. The network is connected.
3. The device is properly configured.
4. The address on the previous page is correct.
If you think the address is not correct, click Back to return to the previous page. Then correct the address and perform another search on the network. If you are sure the address is correct, select the device type below.
Device Type
Standard
Gestetner Network Printer C model
Custom
Settings...
< Back
Next >
Cancel

8) Click “Finish”.


Add Standard TCP/IP Printer Port Wizard
Completing the Add Standard TCP/IP Printer Port Wizard
You have selected a port with the following characteristics.
SNMP: No
Protocol: RAW, Port 9100
Device: 192.168.0.31
Port Name: 192.168.0.31
Adapter Type: Gestetner Network Printer C model
To complete this wizard, click Finish.
< Back
Finish
Cancel

9) Click Click “Control Panel”→”Hardware and Sound”→”Devices and Printers”., right click “Printer Properties” of printer HPRT TP806 and choice “Ports”→“Configure Port…”, finish the setting of related parameter, click “OK”.





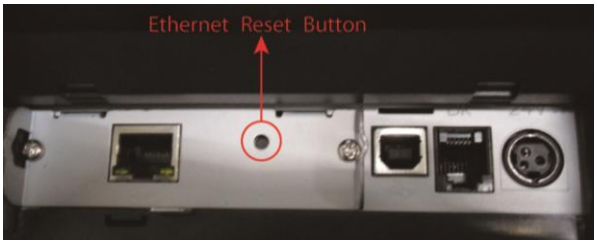
4.9.3 Parameters checking and resetting illustration of the Ethernet and Wi-Fi cards

Ethernet parameter checking:

Press the button on the communication card round hole when the printer is power on, the printer will print the current Ethernet parameters.

Ethernet card parameter resetting:

Press the button on the communication card round hole then power on. After you power on, the parameter on the communication card is renew to the original situation.



Wi-Fi card parameter checking:

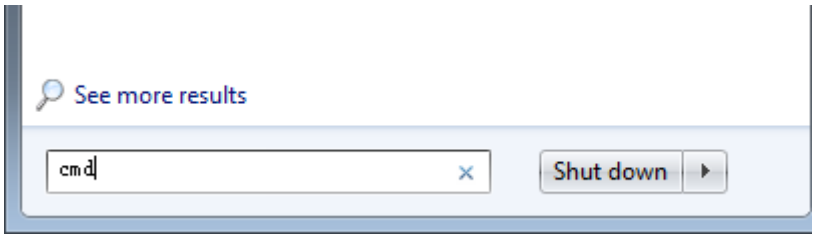
Press the button on the interface card round hole when the printer is power on， he printer will print software edition and the TCP/IP setting information of the interface card.

Wi-Fi card parameter resetting:

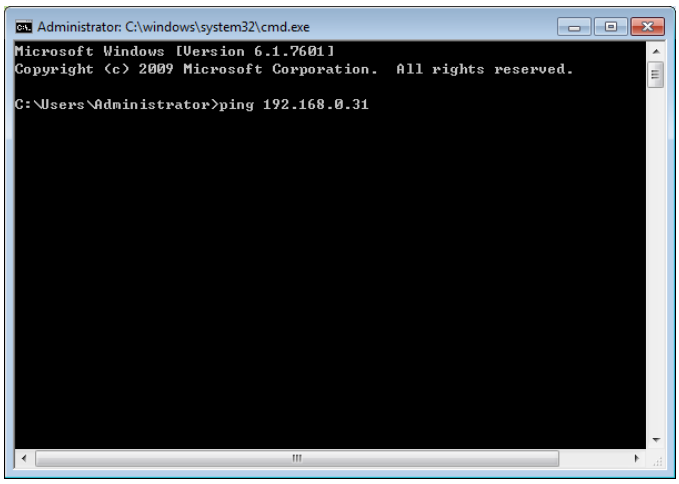
Press the button on the communication card round hole then power on. he parameter on the communication card is renew to the original situation.

4.9.4 Setting of Ethernet IP

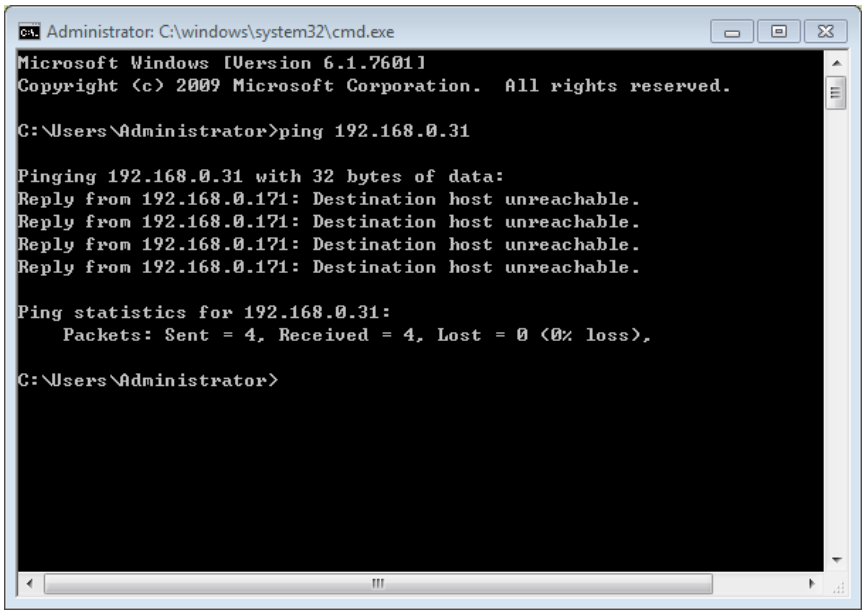
1) Ethernet IP can be set through Web page, the operating steps are followed：
2) Connect the printer to computer, please refer to the USB, Serial interface and Parallel User Manual 4.9.1.
3) Connect Ethernet to the printer, please refer to the Ethernet driver installation in User Manual 4.9.2.
4) Print self- test page after power on. You can find the IP information in the self-test page IP address line. IP address: 192.168.0.31 //indicates the IP address is 192.168.0.31
5) Click Start-Operate in the computer and key in “cmd” in the input box then click Sure, see the following figure:



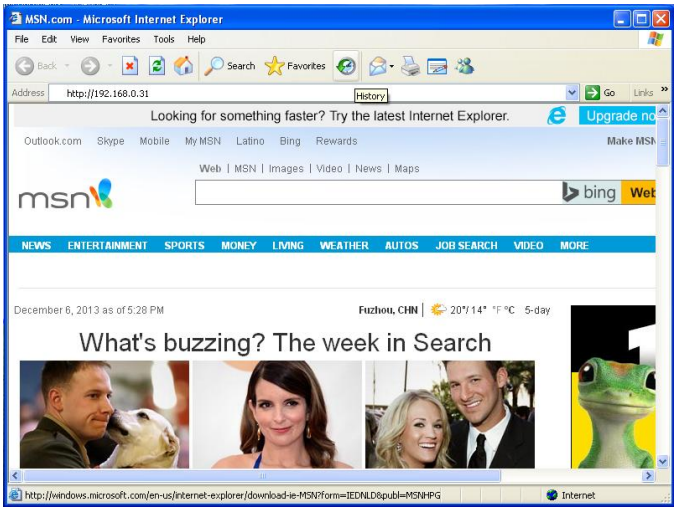
6) Key in ping 192.168.0.31 after “Administrator>”, see the following figure:


Administrator: C:\windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>ping 192.168.0.31

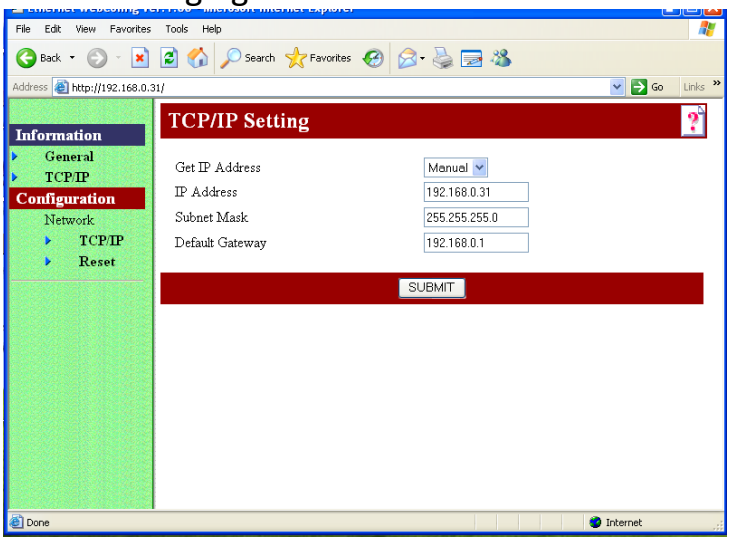
7) Click “Enter”, if the following figure is presented, you can sure that the Ethernet have been connected to the printer, if not presented, please check the connection between the Ethernet and the printer.


Administrator: C:\windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Users\Administrator>ping 192.168.0.31
Pinging 192.168.0.31 with 32 bytes of data:
Reply from 192.168.0.171: Destination host unreachable.
Reply from 192.168.0.171: Destination host unreachable.
Reply from 192.168.0.171: Destination host unreachable.
Reply from 192.168.0.171: Destination host unreachable.
Ping statistics for 192.168.0.31:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
C:\Users\Administrator>

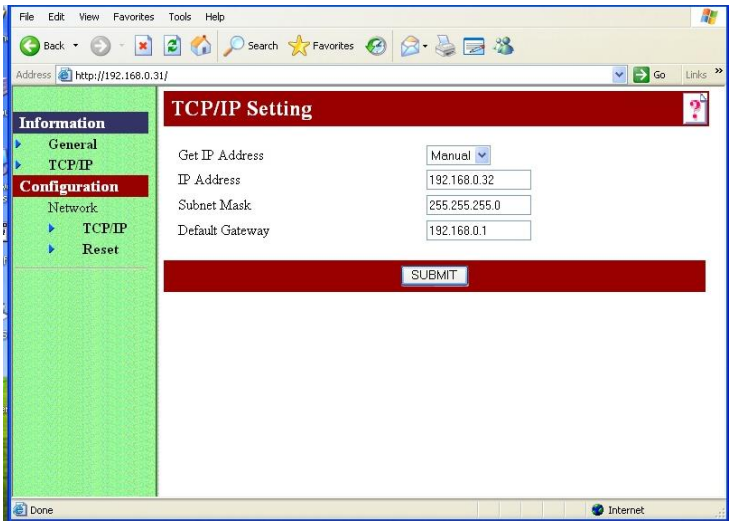
8) Then please input http://192.168.0.31, in the brower see the following figure:


MSN.com - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://192.168.0.31
Looking for something faster? Try the latest Internet Explorer.
Upgrade no
Outlook.com Skype Mobile My MSN Latino Bing Rewards
Make MSN
Web | MSN | Images | Video | News | Maps
msn
bing
NEWS ENTERTAINMENT SPORTS MONEY LIVING WEATHER AUTOS JOB SEARCH VIDEO MORE
December 6, 2013 as of 5:28 PM
Fuzhou, CHN
What's buzzing? The week in Search
Internet

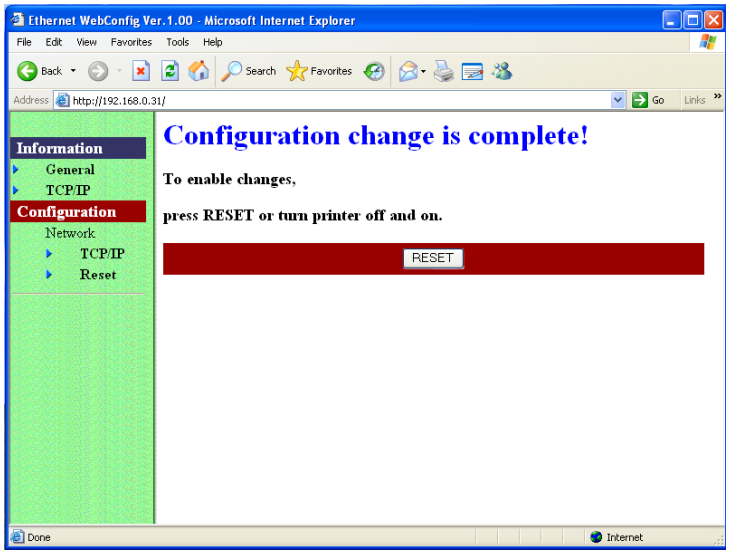
9) Press “Enter”, the browser will skip to the IP setting interface, click Configuration in the left side then enter to the address modify page, 192.168.0.31 is the current IP address, see the following figure:



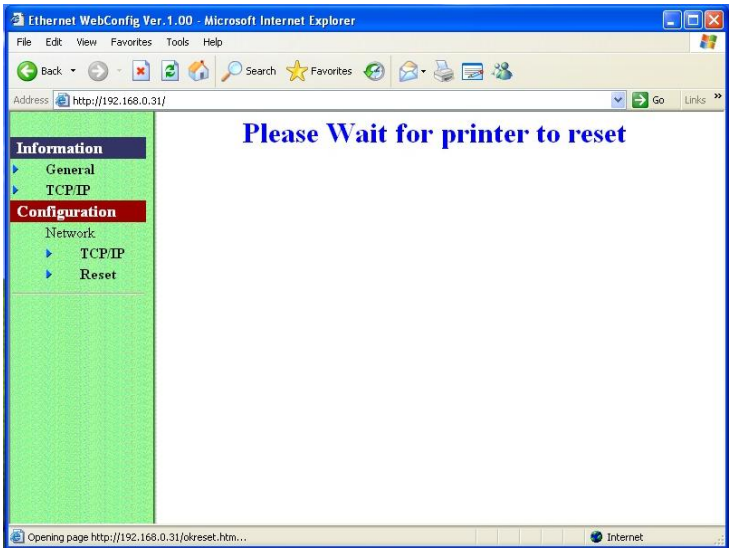
10) Modify the IP in the IP Address. For example, modify the IP to 192.168.0.32，see the following figure：



11) Click SUBMIT in the middle of the upper page then enter to the following webpage：



12) Click RESET in the middle of the upper webpage then enter to the following webpage:



13) Reboot the printer to effect the new IP, then you can print self-test page and find the new IP address 192.168.xx.xx.

4.9.5 Wi-Fi settings

Wi-Fi work mode：

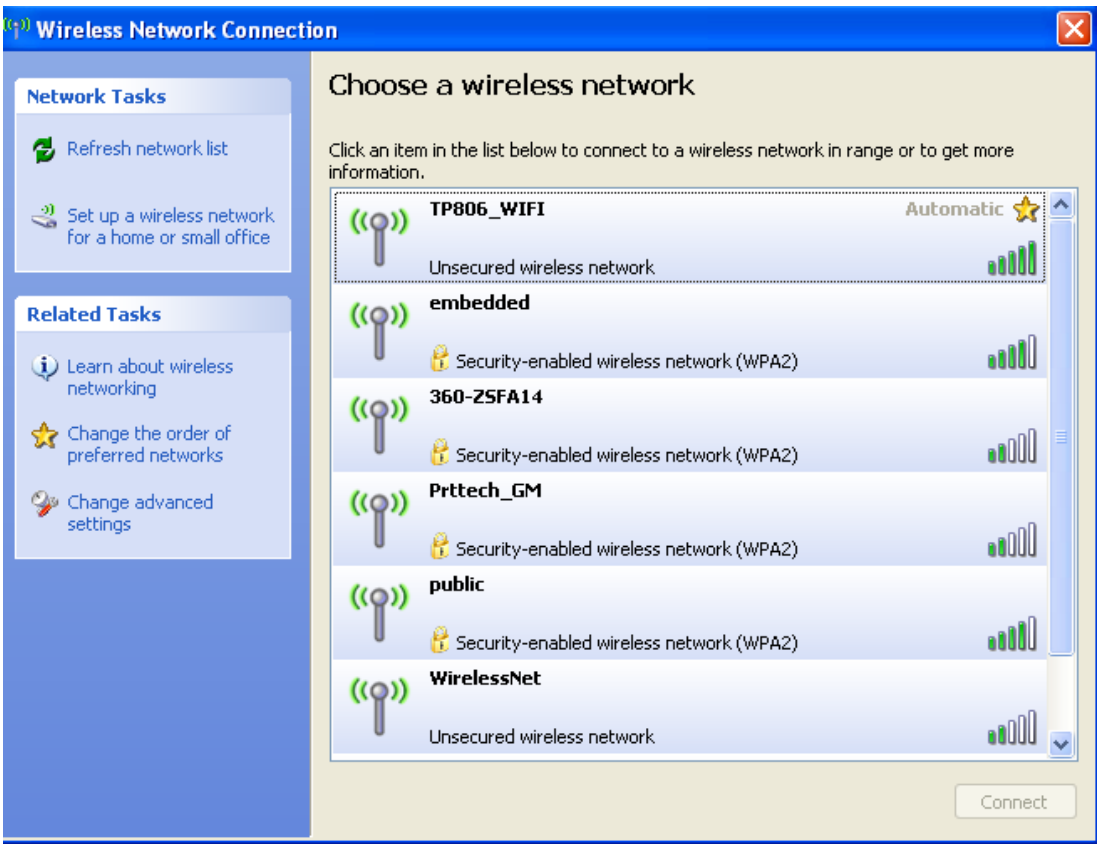
AP mode：when printer under AP mode, it works as an access point.

STA mode: when printer under STA mode, it works as a wireless terminal, which could find and connect to AP.

To allow users to conveniently make WIFI setting change, AP mode has been set to default. User could use PC to connect to the printer by web browser. After entering WIFI setting page, users could switch to STA mode accordingly and make other setting changes, for example IP address, SSID.

1. Entering Wi-Fi setting page：

1) Power on the printer.
2) Enable Wi-Fi on the PC, and search for “TP806_WIFI”.



3) Open web browser, and enter http://192.168.0.XXX(this IP address is printed on the Wi-Fi configuration page).

How to print Wi-Fi configuration page: power on the printer, long press the WIFI reset button (see below picture), then printer will print the configuration page.

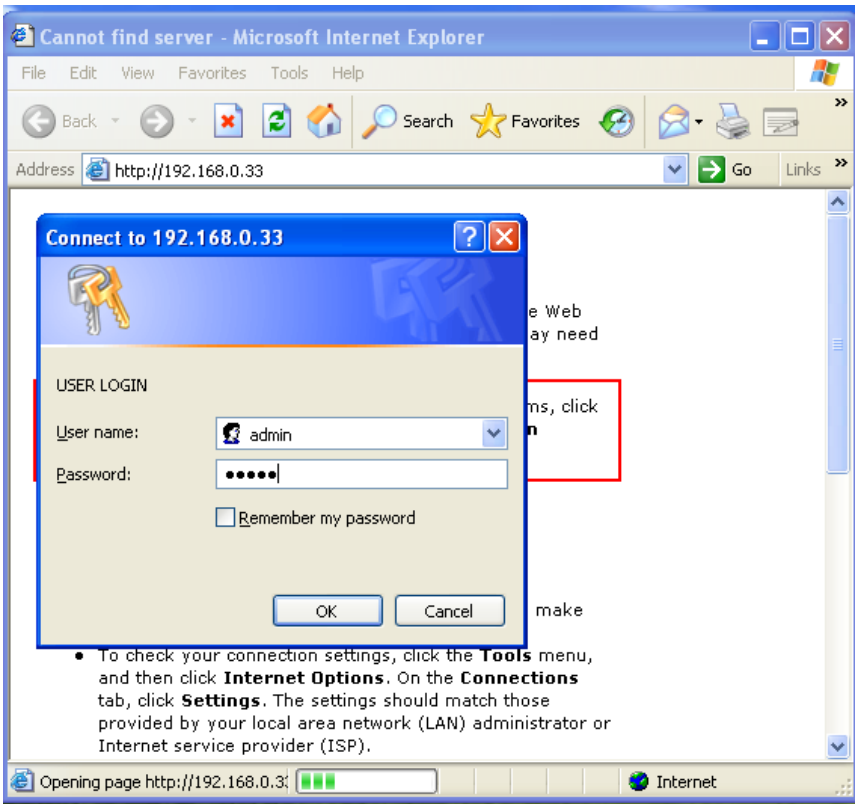
NOTE: hold Wi-Fi reset button, at same time power on the printer, Wi-Fi settings will be set to factory default.

Example of Wi-Fi configuration page, which shows the IP address of 192.168.0.33.

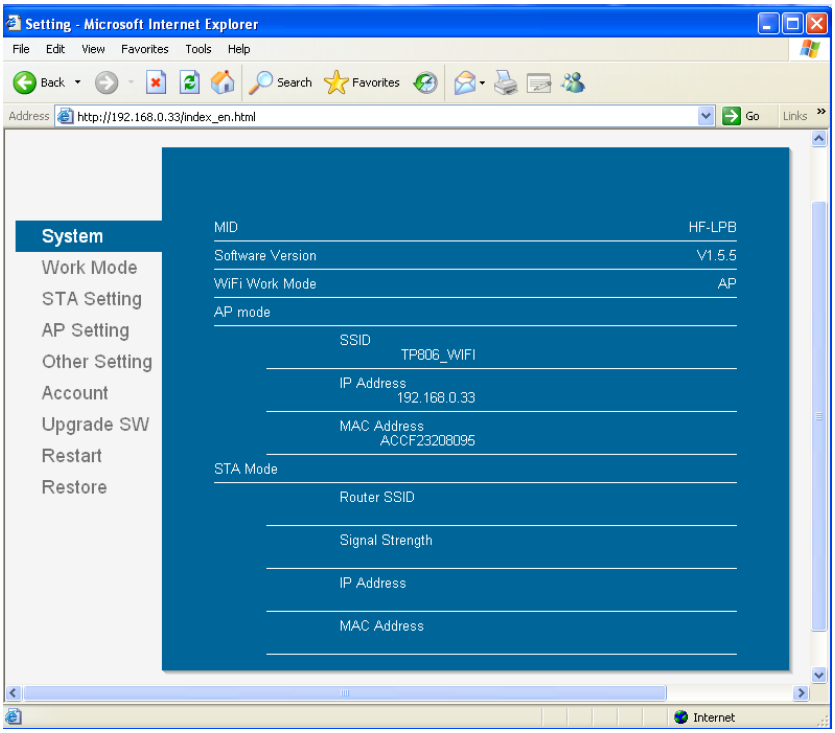
4) Use Internet Explorer or other web browser to open http://192.168.0.33, input

user name: admin;

password: admin

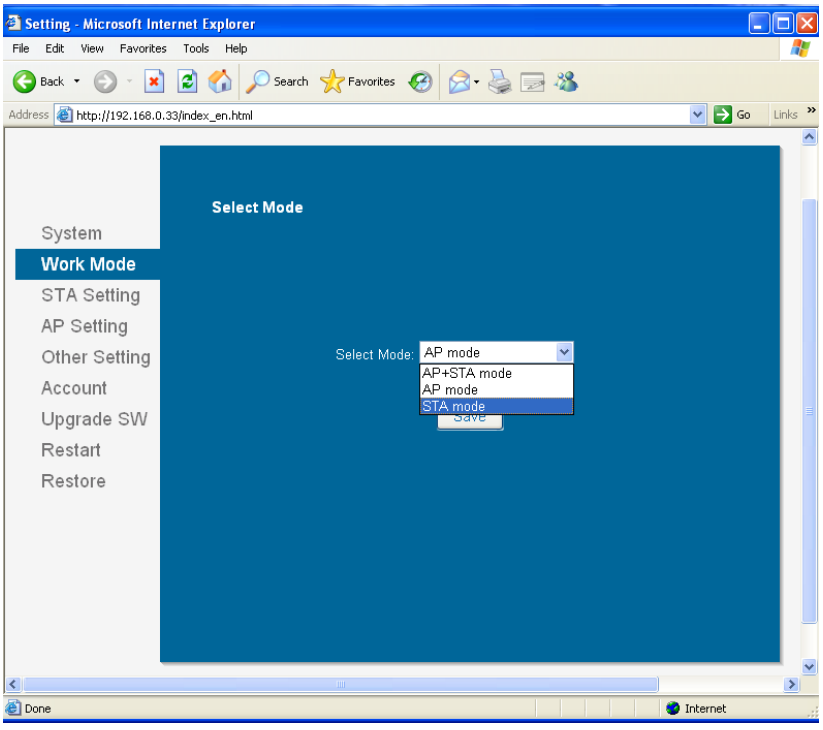

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://192.168.0.33
Go Links
Connect to 192.168.0.33
USER LOGIN
User name: admin
Password:
Remember my password
OK Cancel
To check your connection settings, click the Tools menu, and then click Internet Options. On the Connections tab, click Settings. The settings should match those provided by your local area network (LAN) administrator or Internet service provider (ISP).
Opening page http://192.168.0.3
Internet

5) After entering user name and password, click on OK to enter Wi-Fi setting page.

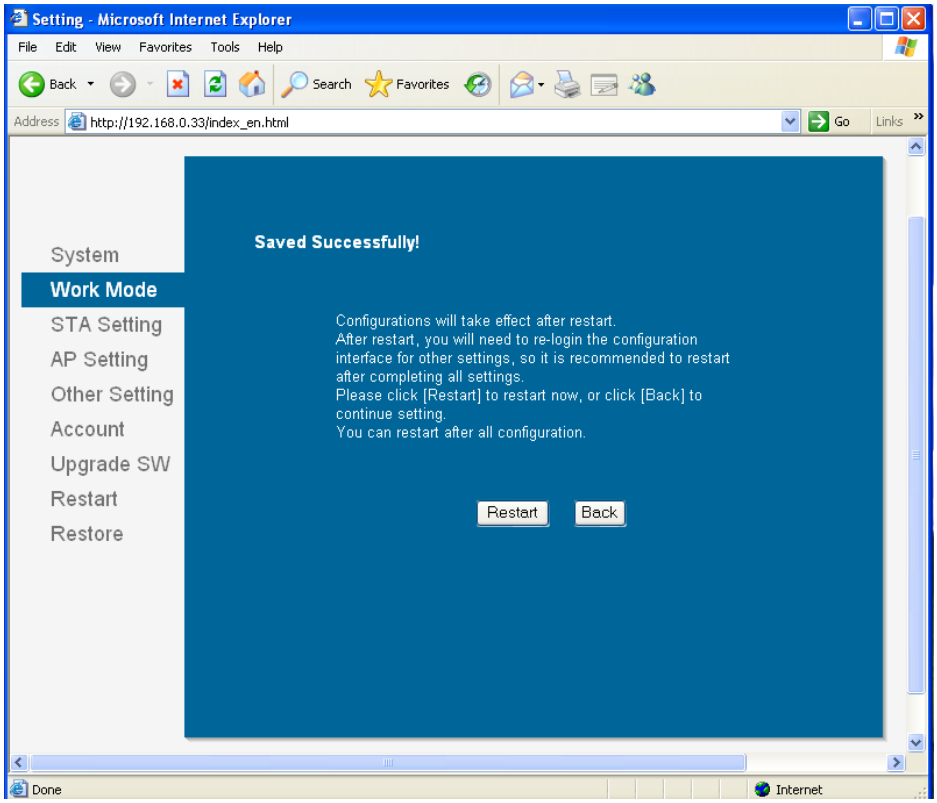


2. STA mode settings

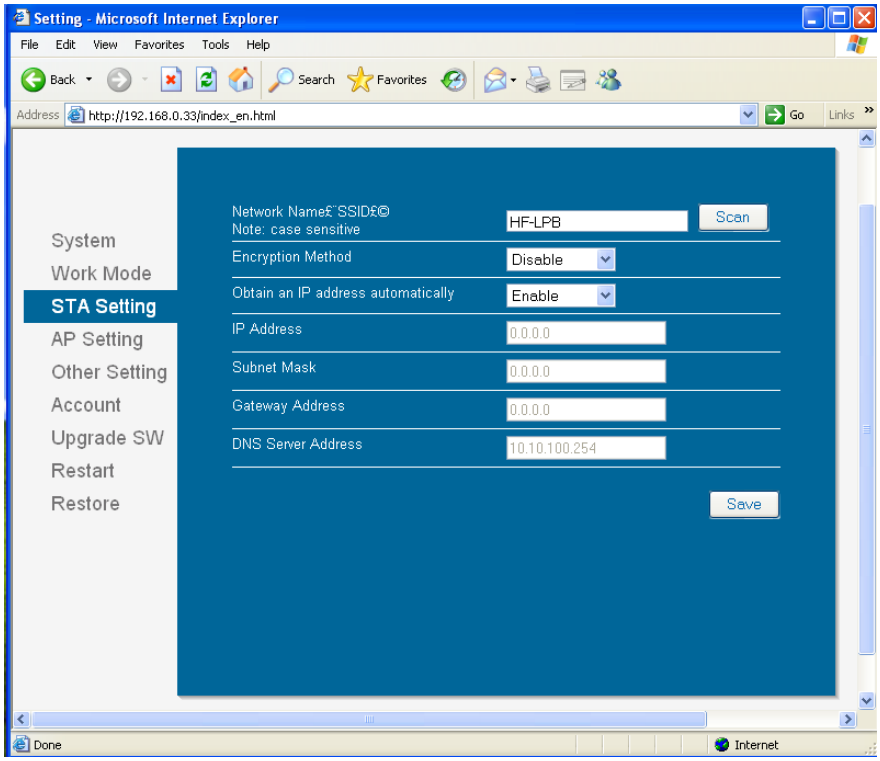
1) Click on “Work Mode” on the left-hand side, rolling down to STA mode.



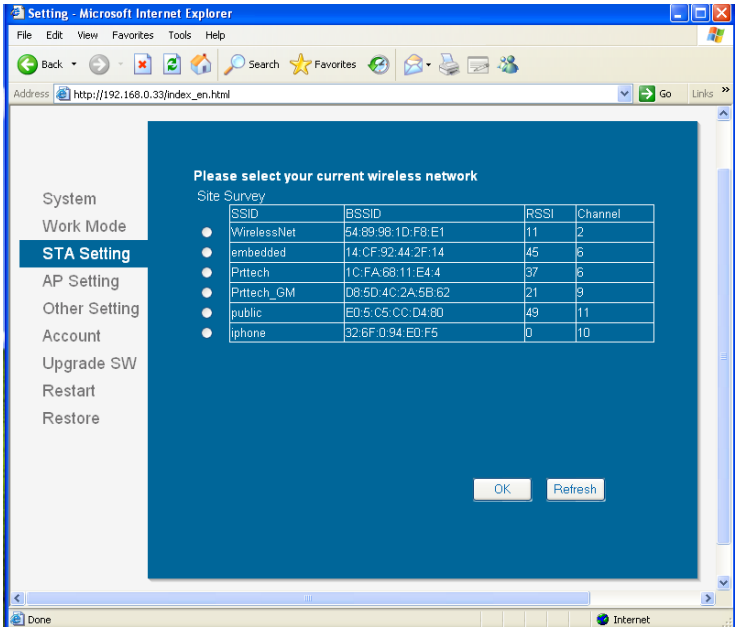
2) Click on “SAVE” and below window will pop up.



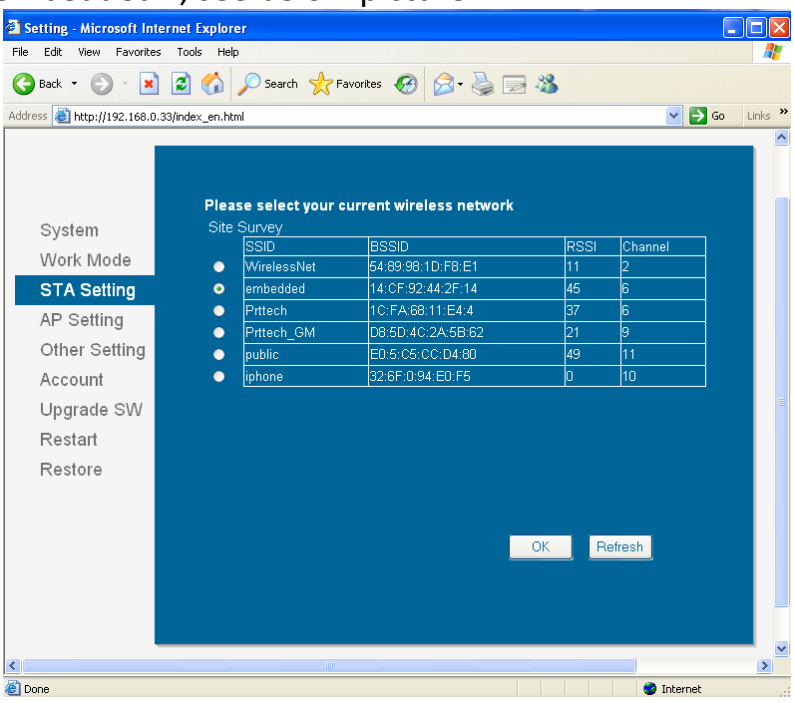
3) Do not click on “RESTART” button at this moment, instead click on the “STA Setting” on the left side to make more STA settings.

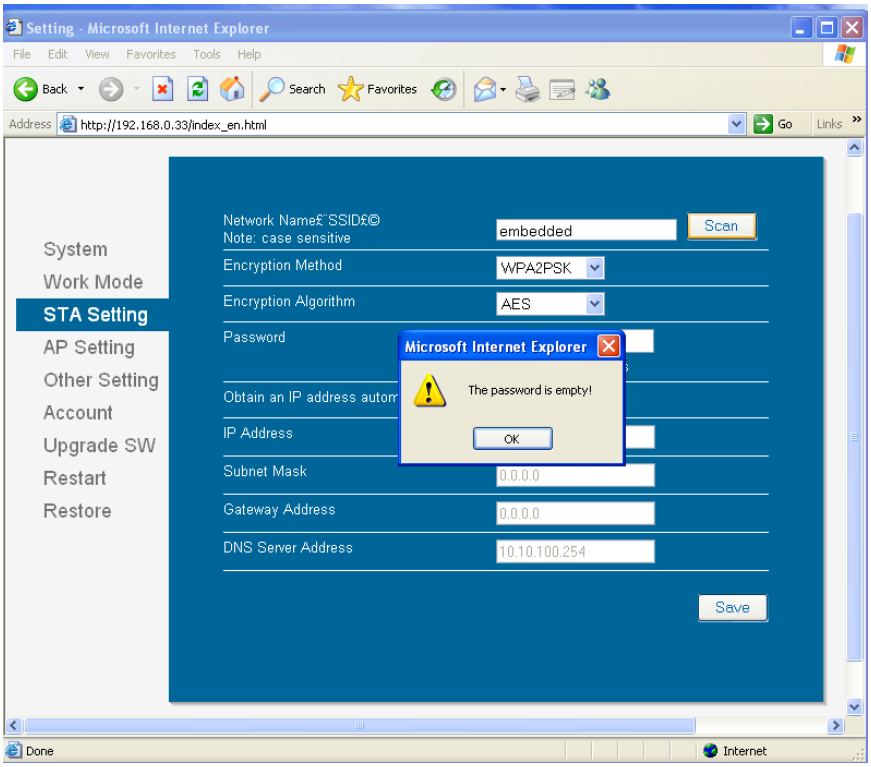


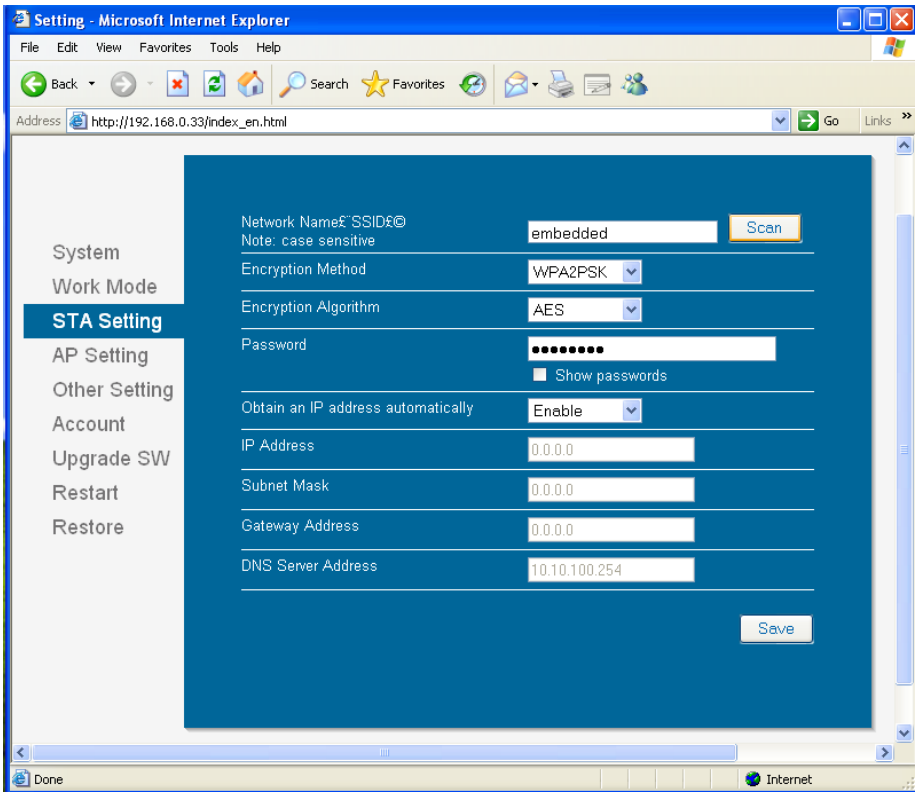
4) Click on “SCAN” button to search for access points
For example, below picture shows there are several access points available



5) Choose the correct access point.
   For example: ”embedded” , see below picture.

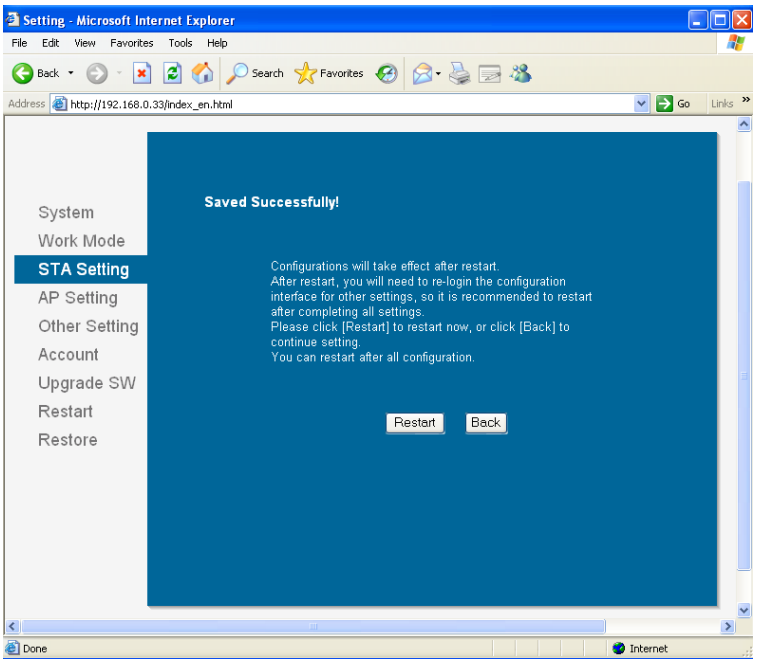




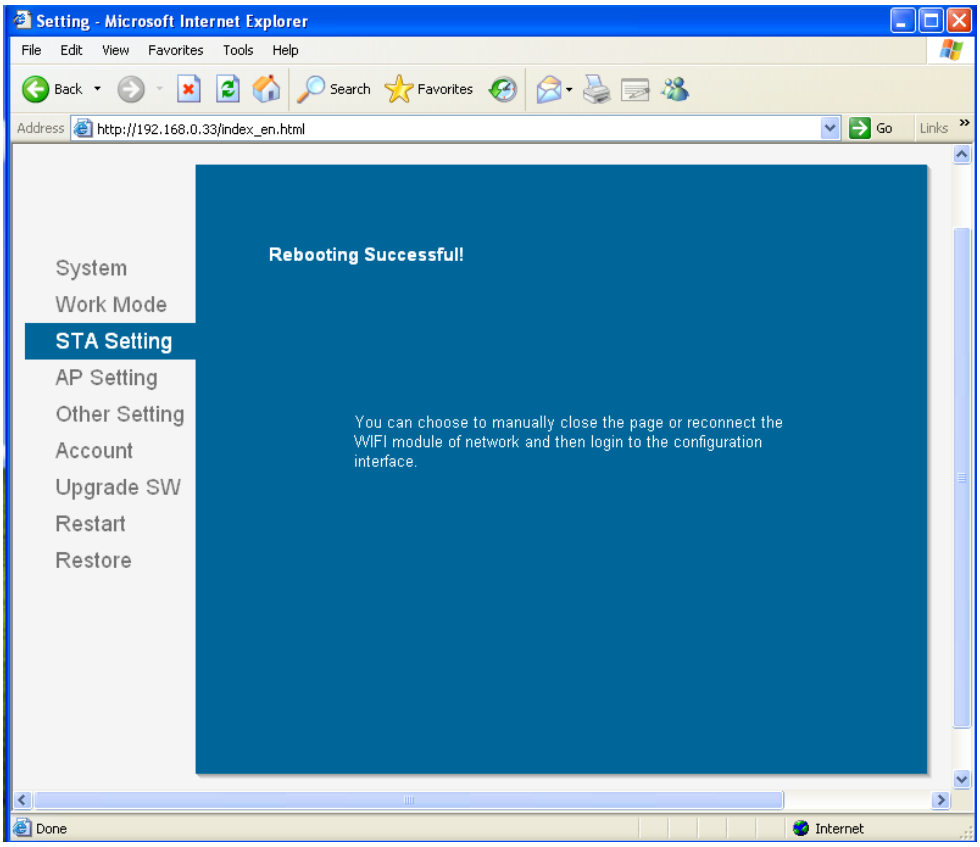


NOTE: settings in the above pictures are just for examples, not for your actual on-site network settings. Please refer to your IT and network engineer for the correct network settings.

6) After setting, click on “SAVE”.



7) If users want to make other changes, click on “ BACK” , otherwise click on “RESTART” button.

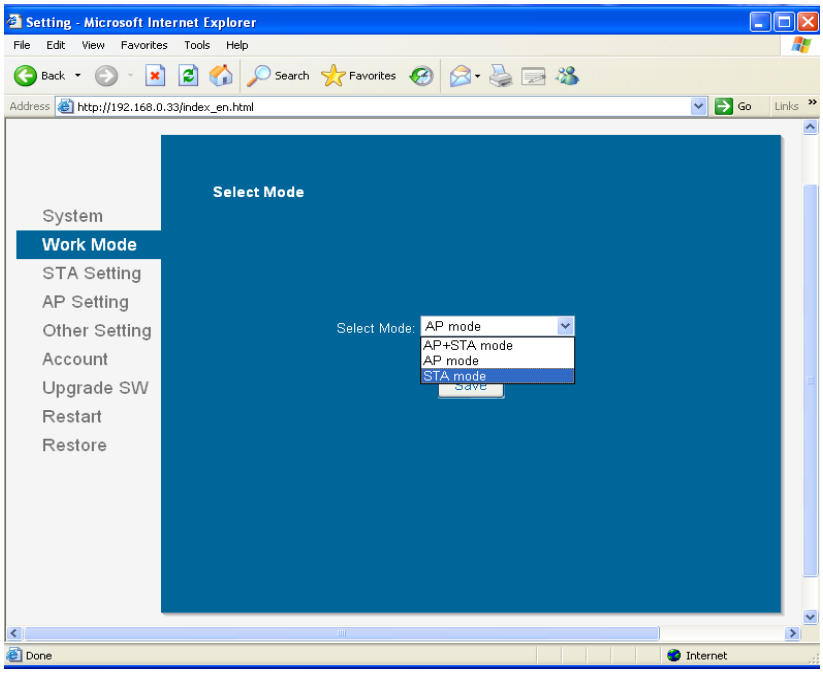


8) Above settings will take into effect after power off/on the printer, user could print the Wi-Fi configuration page to check whether settings have been success fully made.

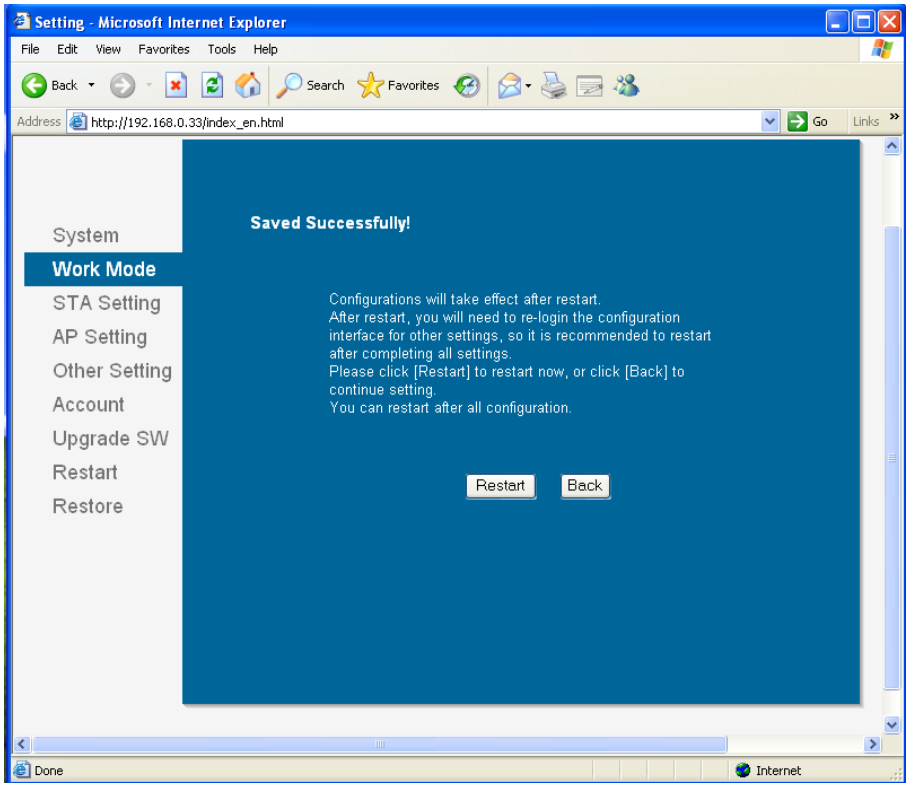
NOTE: after changing to STA mode, access point will assign an IP address to the printer, by printing WIFI configuration page, users could see the IP address, and use it for entering WIFI setting page in the future.

3. **AP mode settings:**

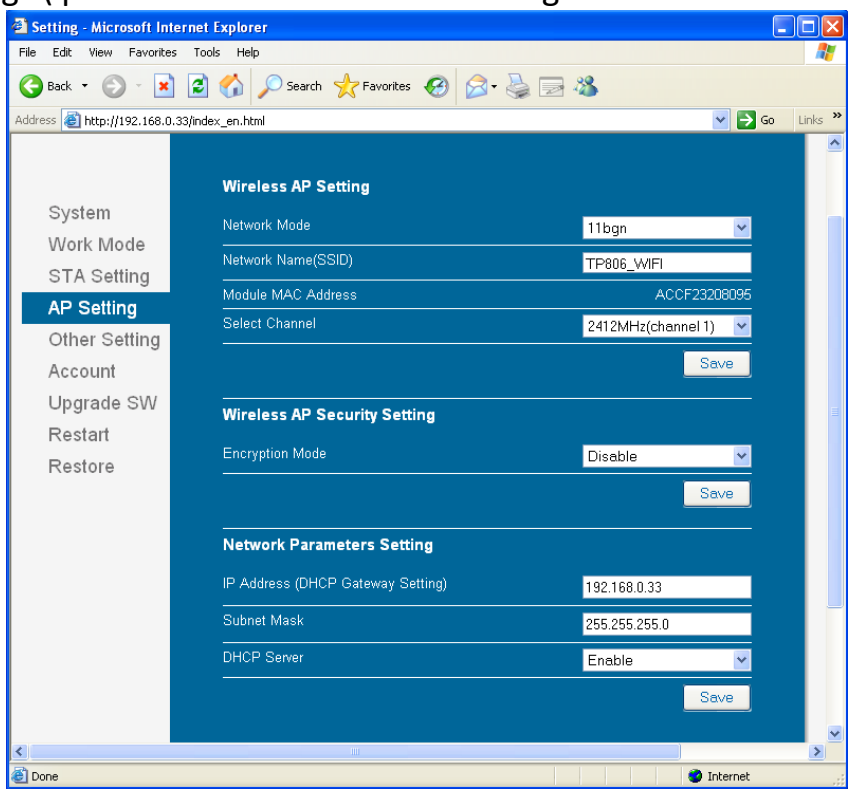
1) Click on the “Work Mode”, roll down to “AP mode”, click on “Save”.

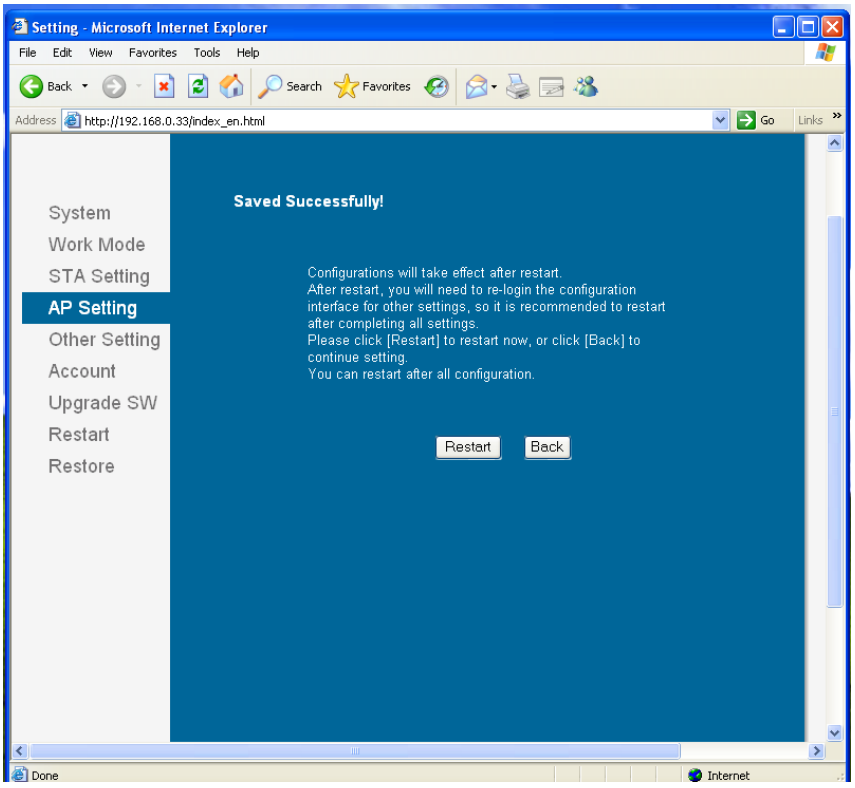


2) Do not click on “Restart”, and instead click on “AP Setting” on the left side.

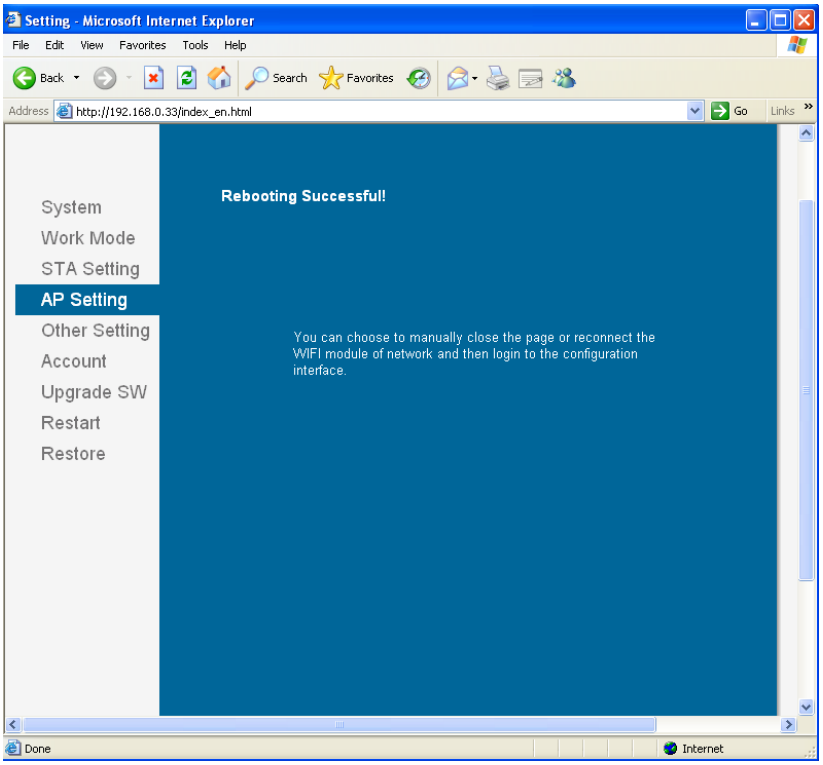


3) According to user's actual needs to change network mode, SSID, IP address and other settings (please refer to IT or network engineer for the correct settings).





4) Click on "Save" and "restart" button to confirm the settings.



5) Power off and power on the printer, above settings will take into effect. Users could print WIFI configuration page to check whether setting have been successfully made.

5 Interfaces signal

Printer TP801/TP805/TP806 supports cash drawer interface and many other various communicate interfaces, such as Serial interface, parallel interface, USB interface, Ethernet interface (TP801/TP806 also support Wi-Fi interface). The printer has the communication board with the default USB interface and cash drawer interface, and the other communication boards with the Ethernet interface, parallel interface, RS232 interface are optional.

5.1 Parallel interface

Parallel interface (TP801/TP805/TP806 support TM-T88IV protocol) supports protocol with 36 pin CENTRONICS socket.

Pin No.	Signal Source	Signal Definition
1	H	Data latch pulse, latch the data to the printer at the rising edge of the negative pulse
2	H	Data 0(The lowest bit)
3	H	Data 1
4	H	Data2Si
5	H	Data3
6	H	Data4
7	H	Data5
8	H	Data 6
9	H	Data7 (The highest bit)
10	P	Printer response signal, indicates that the printer has received the last byte of data; A negative pulse of about 1us.
11	P	Busy Signal; The printer is busy; High level indicates that the printer can't receive data.
12	P	PE Signal; paper end signal; High level indicates that the printer is paper end.
13	-	Unconnected
14	-	Unconnected
15	-	Unconnected
16	Logic Ground	
17	Frame Ground, separated from logic ground	
18	-	Unconnected
19~30	Logic Ground	
31	-	Unconnected
32	P	Printer error signal, low level indicates that error occurs in the printer, the error signal will output along with paper end signal.
33	Logic Ground	
34~35	-	Unconnected
36	-	Unconnected

Note：H indicates that signal comes from Host computer, P indicates that signal comes from Printer

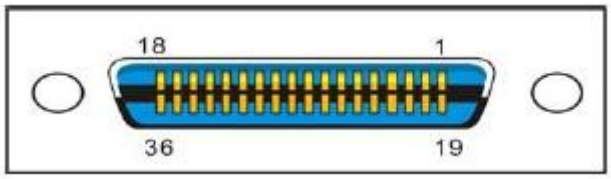


Figure 5.1.1

5.2 Serial interface

Pin definition

PIN No.	Signal name	Classic wire color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

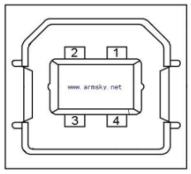


Figure 5.2.1

5.3 Power Supply interface definition

1) Pin definition

PIN No.	Signal Name
1	+24V
2	GND
3	N.C
SHELL	F.G

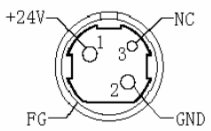


Figure 5.3.1

2) Interface type

Printer end-Unetop DC-002 or similar products, user end-Unetop DC-002 or similar products

5.4 Cash Drawer interface signal

1) Electrical characteristics

- Driving voltage：DC 24 V
- Driving current：maximum 0.8 A (In 510 ms)
- Drawer check signal："L" = 0 ~ 0.5 V "H" = 3 ~ 5 V

2) Cash Drawer interface sing RJ-11 connector

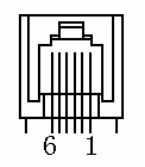


Figure 5.4.1

- Interface signal definition

Pin No.	Signal	Function
1	FG	Frame Ground
2	DRAWER 1	Drawer kick-out drive signal 1
3	DRSW	Drawer open/close signal
4	VDR	Drawer driving source
5	DRAWER 2	Drawer kick-out drive signal 2
6	GND	GND

Note：

- Strictly prohibit to hot plug the plug.
- When arranging the line of communication, you have to avoid paralleling with the strong current.
- you have to use the shielded communication line.

5.5 Serial interface and Ethernet interface

Printer TP 805 serial interface is compatible with RS-232 standard, with 9 pin (D hole type) socket.

Serial interface definition

PIN No.	Signal definition
PIN 1	CD
PIN 2	TD
PIN 3	RD
PIN 4	DSR
PIN 5	GND
PIN 6	DTR
PIN 7	CTS
PIN 8	RTS
PIN 9	RI

Ethernet interface definition

PIN No.	Signal definition
1	TX+
2	TX-
3	RX+
4	n/c
5	n/c
6	RX-
7	n/c
8	n/c

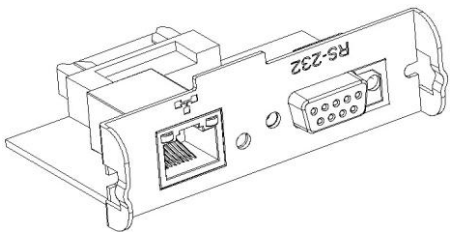
Printer TP 801 and TP806 serial interface are all compatible with RS-232 standard, with 25 pin (D hole type) socket.
User can gain the setting of interface via printing configuration sample; the default setting of serial interface is as follow, 9600 bps (baud rates), 8 bit (data bit), 1 bit (stop bit), no parity, support RTS/CTS handshaking protocol.

Serial interface definition

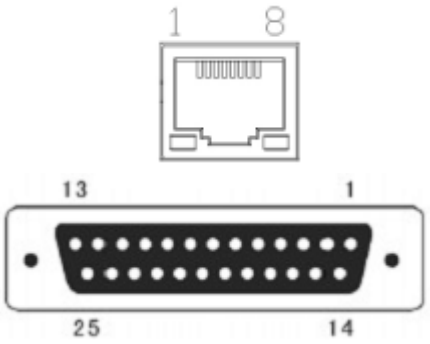
PIN No.	Signal definition
PIN1	Frame Ground
PIN2	TXD
PIN 3	RXD
PIN 4	RTS
PIN 5	Unconnected
PIN 6	DSR
PIN 7	GND
PIN 8~19	Unconnected
PIN 20	DTR
PIN 21~25	Unconnected

Ethernet interface definition

PIN No.	Signal definition
1	TX+
2	TX-
3	RX+
4	n/c
5	n/c
6	RX-
7	n/c
8	n/c



TP805



TP801/TP806

Figure 5.4.1

6 Troubleshooting

Your printer is very reliable, but occasionally problems may occur. This chapter provides information on some common problems you may encounter and how to solve them. If you encounter problems that you can not resolve, contact your dealer for assistance

6.1 Printer not working

Problem description	Probable reason	Solution
LED indicator not light, printer not working	Printer No power	Connecting the power supply
	Printer not on	Turn on the printer
	Circuit board broken	Contact with the dealer

6.2 LED indicator on the control panel and beeper alarm

Problem description	**Probable reason**	**Solution**
Paper LED always on	Paper near end	The roll paper is near end, the printer can work normally
Error LED always on and beeper alarms	Printer Cover open	Close the printer cover
Paper Error LED always on and beeper alarms	Paper end	Reload the roll paper
Error LED blinks and beeper alarms	Thermal print head overheated	Turn the printer off and resume when it cools
	overvoltage	Print with specified voltage
	Low-voltage	Print with specified voltage

6.3 Troubles occur during printing

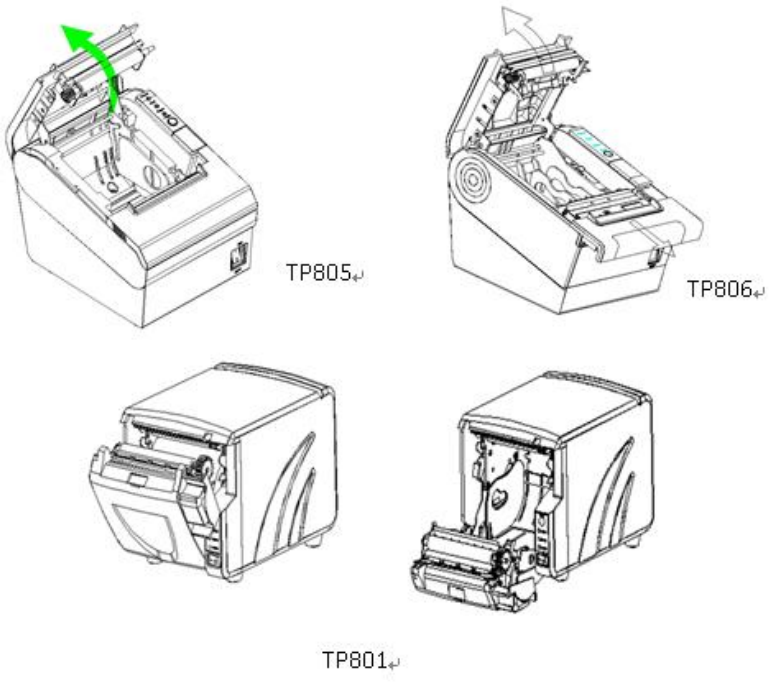
Problem description	Probable reason	Solution
Coloured stripe in the paper	Paper near end	Reinstall the roll paper
Blurred printing or spot	Incorrect roll paper installation	Check if the roll paper is installed
	Unqualified roll paper	Use recommended thermal roll paper
	Dirty thermal head or print rooler	Clean the thermal head or print rooler
	Low print density	Increase the print density level
Paper Jam	Paper stucked	Open the printer cover, check the paper path and remove jammed paper
Vertical print words missing	Dirty thermal head or print rooler	Clean the thermal head or print rooler
	Thermal head damaged	Contact your dealer for assistance

6.4 Problems emerge during the paper cutting processes

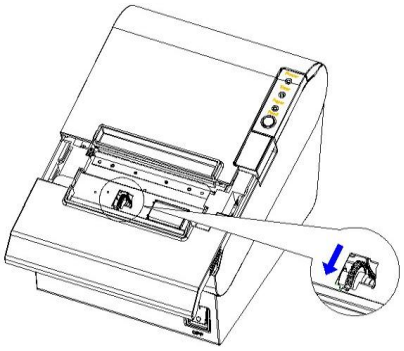
Problem description	Probable reason	Resolution
Cutter jam, the movable cutter cannot back	Cutter abrasion, insufficient cutting	replace the cutter
	Worm gear and worm wheel abrasion	Replace the worm gear and worm wheel
	Motor burnt	Replace the motor
	Paper scraps	Clean the paper scraps on the transmission system
Insufficient cutting	Cutter edge abrasion, paper too thick	Replace the cutter
Paper jam	Thermal printer head over heat	Reduce the thermal printer head heating power
	Driving too fast	Reduce the printer speed to the limit of thermal printer head
	Wrong paper feeding position	Put the paper parallel with the paper mount and insert into the space between platen roller and the thermal printer head

6.5 Removing Jammed Paper

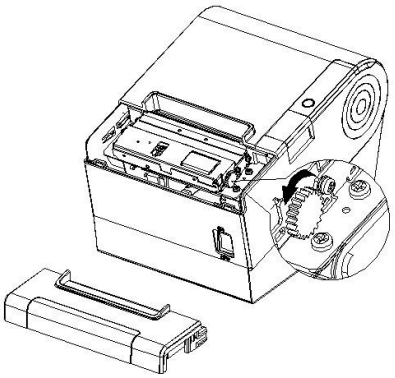
- Do not touch the thermal print head because it becomes very hot after printing.
- Turn the printer off and press the cover open button.
- Remove jammed paper, reinstall the roll, and close the cover.



- If the auto cutter jam occurs on printer TP805 and TP806 and you cannot open the printer cover, open the cutter cover as shown on the left below.
- Turn the knob until the cutter blade returns to the normal position.
- Close the cutter cover.
- Open the printer cover and remove the jammed paper.



TP805



TP806